



SEQUENCE LISTING

<110> Sette, Alessandro
Gaeta, Federico
Grey, Howard M.
Sidney, John
Alexander, Jeffery L.
Epimmune Inc.

<120> Induction of Immune Response Against
Desired Determinants

<130> 018623-006250US

<140> US 09/707,738
<141> 2000-11-06

<150> US 08/121,101
<151> 1993-09-14

<150> US 08/305,871
<151> 1994-09-14

<150> US 08/485,218
<151> 1995-06-07

<150> US 60/010,510
<151> 1996-01-24

<150> US 08/788,822
<151> 1997-01-23

<150> US 09/310,462
<151> 1999-05-12

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1 5 10

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Val Thr Pro Arg Thr Pro Pro Pro
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<220>
<223> MT 65 kd 3-13

<400> 3
Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg
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Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
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<210> 5
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<220>
<223> Tet Tox 830-843, T-helper epitope from tetanus
      toxin p2, peptide 553.01

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<220>
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<220>
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Ala

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                                         10

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    <223> lambda rep 12-26

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Tyr Leu Glu Asp Ala Arg Arg Leu Lys Ala Ile Tyr Glu Lys Lys Lys
    1           5           10           15
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Tyr Asn Thr Asp Gly Ser Thr Asp Tyr Gly Ile Leu Gln Ile Asn Ser
    1           5           10           15
Arg

    <210> 11
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    <223> all-natural analog of pan DR binding peptide
          965.10 with substitutions L-Ala for D-Ala, Phe at
          position X2 and Trp at position X6

    <400> 11
Ala Lys Phe Val Ala Ala Trp Thr Leu Lys Ala Ala Ala
    1           5           10

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<210> 12
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<220>
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and Asn at position X6

<400> 12
Ala Lys Phe Val Ala Ala Asn Thr Leu Lys Ala Ala Ala
1 5 10

<210> 13
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and Tyr at position X6

<400> 13
Ala Lys Phe Val Ala Ala Tyr Thr Leu Lys Ala Ala Ala
1 5 10

<210> 14
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and Lys at position X6

<400> 14
Ala Lys Phe Val Ala Ala Lys Thr Leu Lys Ala Ala Ala
1 5 10

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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and His at position X6

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1 5 10

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 965.10 with substitutions L-Ala for D-Ala, Phe at
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<400> 16
 Ala Lys Phe Val Ala Ala Ala Thr Leu Lys Ala Ala Ala
 1 5 10

<210> 17
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<220>
 <223> central immunodominant circumsporozoite repeat
 region of circumsporozoite protein (CSP) of
 Plasmodium yoelii (PyB)

<400> 17
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 1 5 10 15

Gly Ala Pro Gln Gly Pro Gly Ala Pro
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<210> 18
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 region of circumsporozoite protein (CSP) of
 Plasmodium falciparum (PfB)

<400> 18
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 1 5 10 15

<210> 19
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 PyB CSP

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<210> 20
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<220>
 <223> universal T-helper epitope from tetanus toxin p30

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1 5 10 15
Ala Ser His Leu Glu
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<220>
<223> PyCS.1 Plasmodium falciparum B-epitope

<400> 21
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<210> 22
<211> 13
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<220>
<223> peptide 965.17

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<222> (3)...(3)
<223> Xaa = cyclohexylalanine

<221> MOD_RES
<222> (13)...(13)
<223> Xaa = alaninamide

<400> 22
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1 5 10

<210> 23
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<220>
<223> peptide binds more than one DR allele

<221> MOD_RES
<222> (1)...(1)
<223> Xaa = any D- or L-amino acid

<221> MOD_RES
<222> (2)...(2)
<223> Xaa = Ala or Lys

<221> MOD_RES
<222> (3)...(3)
<223> Xaa = cyclohexylalanine, Tyr or Phe

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<221> MOD_RES
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<223> Xaa = Ala, Ile, Ser or Val

<221> MOD_RES
<222> (11)...(12)
<223> Xaa = Ala, Ser or Val

<221> MOD_RES
<222> (13)...(13)
<223> Xaa = any D- or L-amino acid

<400> 23
Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa
1 5 10

<210> 24
<211> 14
<212> PRT
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<220>
<223> peptide binds more than one DR allele

<221> MOD_RES
<222> (1)...(1)
<223> Xaa = any D- or L-amino acid

<221> MOD_RES
<222> (2)...(2)
<223> Xaa = Ala or Lys

<221> MOD_RES
<222> (3)...(3)
<223> Xaa = cyclohexylalanine, Tyr or Phe

<221> MOD_RES
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<223> Xaa = Ala, Ile, Ser or Val

<221> MOD_RES
<222> (11)...(13)
<223> Xaa = Ala, Ser or Val

<221> MOD_RES
<222> (14)...(14)
<223> Xaa = any D- or L-amino acid

<400> 24
Xaa Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa
1 5 10

<210> 25
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<212> PRT
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<220>
<223> peptide binds more than one DR allele

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<221> MOD_RES
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<223> Xaa = Ala, Ser or Val

<221> MOD_RES
<222> (15)...(15)
<223> Xaa = any D- or L-amino acid

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<210> 26
<211> 13
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<223> Xaa = Ala or Lys

<221> MOD_RES
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<223> Xaa = cyclohexylalanine, Tyr or Phe

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<223> Xaa = Ala, Ile, Ser or Val

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<222> (7)...(7)
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<223> Xaa = Ala, Ser or Val

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<221> MOD_RES
<222> (14)...(15)
<223> Xaa = Ala, Ser or Val, Xaa at positions 14 and 15
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<222> (16)...(16)
<223> Xaa = any D- or L-amino acid

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1           5                   10                  15

<210> 27
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<220>
<223> pan DR binding peptide binding core

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